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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/697,488 10/30/2003 Etsuhisa Yamada 4041J-000799 7700 27572 04/22/2005 EXAMINER 7590 HARNESS, DICKEY & PIERCE, P.L.C. ZEC, FILIP P.O. BOX 828 ART UNIT PAPER NUMBER BLOOMFIELD HILLS, MI 48303

3744

DATE MAILED: 04/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
		10/697,488	YAMADA ET AL.
	Office Action Summary	Examiner	Art Unit
		Filip Zec	3744
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
2a)□ 3)□	Responsive to communication(s) filed on <u>30 October 2003</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Dispositio	on of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-19 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examiner. 10)☒ The drawing(s) filed on 30 October 2003 is/are: a)☒ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority u	nder 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ■ All b) ■ Some * c) ■ None of: 1. ■ Certified copies of the priority documents have been received. 2. ■ Certified copies of the priority documents have been received in Application No. ■ 3. ■ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the dischard detailed Office action for a list of the certified copies not received.			
* See the attached detailed Office action for a list of the certified copies not received.			
Attachment(s)		
2) 🔲 Notice 3) 🔯 Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 30 October 2003.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 2. Claims 1-15 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-25 of U.S. Patent No. 6,516,628 to Izawa et al. Although the conflicting claims are not identical, they are not patentably distinct from each other because they teach the same invention, mainly a refrigerating system comprising a compressor, a condenser for condensing gas refrigerant discharged from the compressor in a cooling mode, the condenser including both first and second heat-exchanging units provided in the claimed order in a refrigerant flow direction, and a high-pressure side gas-liquid separator disposed between the first and second heat-exchanging units, wherein a gas refrigerant is supplied to the separator from the compressor.
- 3. Claims 1-19 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-50 of U.S. Patent No. 6,427,480 to Ito et al.

 Although the conflicting claims are not identical, they are not patentably distinct from each other

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because they teach the same invention, mainly a condenser of a refrigerant cycle system, which includes a first heat exchange unit into which refrigerant discharged from a compressor flows, a second heat exchange unit disposed at a downstream of the first heat exchange unit in a refrigerant flow direction, and a gas-liquid separator disposed between the first and second heat exchange units in the refrigerant flow direction. In this refrigerant cycle system, at least gas refrigerant separated in the gas-liquid separator flows into the second heat exchange unit so that an amount of liquid refrigerant stored in the gas-liquid separator is changed in accordance with a super-heating degree of refrigerant discharged from the compressor.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - U.S. Patent 6,170,272 to Backman teaches a refrigeration system with inertial subcooling.
 - U.S. Patent 6,006,532 to Suzuki et al. teaches a refrigeration cycle system.
- U.S. Patent 6,438,980 to Sakurai et al. teaches a refrigerating apparatus, refrigerator, air-cooled type condenser unit for refrigerating apparatus and compressor unit.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Filip Zec whose telephone number is (571) 272-4815. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (571) 272-4808. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Filip Zec Examiner

SUPERVISORY PATENT EXAMINER

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